



NMNWSE Annual Meeting 2005

October 28 – 30, 2005
 Embassy Suites Hotel
 Albuquerque, NM 87102
 505-245-7100

Agenda

DAY/TIME	EVENT	ROOM
Friday, October 28, 2005		
6:00 – 8:00 pm:	Early Registration ("Manager's reception" available for hotel guests ¹)	Convention registration area
Saturday, October 29, 2005		
8:00 – 9:00 am:	Registration / Breakfast ²	Sierra 3
9:00 ³ – 11:45:	Annual meeting	Sierra 3
12:00 – 1:00 pm:	Luncheon ⁴	Sierra 2
12:15 – 1:00:	Luncheon speaker, Annette L. Sobel <i>Emerging Opportunities for Women in Science and Engineering</i>	Sierra 2
1:15 – 1:45:	Tracy Sterling/Pam Hunt	Sierra 3
1:50 – 2:35:	Betsy Frederick/Irene Lee (demonstration)	Sierra 3
2:40 – 3:10 ⁵ :	Betsy Frederick/Irene Lee (presentation)	Sierra 3
3:30 – 4:00:	Joan S. Saberhagen	Sierra 3
4:05 – 4:35:	Diane Albert	Sierra 3
6:00 - 8:00:	Dinner ⁶	Sierra 2
Sunday, October 30, 2005		
8:30 –	NMNWSE Board Meeting / Breakfast ²	Sierra 3

¹ People not staying at the hotel can purchase drinks. All attendees are encouraged to join us for dinner. If you arrive before 6pm, please leave a message for Alice Yuen at the hotel registration desk. If you arrive after 8pm, we'll leave a message with our dinner plans at the hotel registration desk.

² Continental breakfast (provided for hotel guests, \$9.95 for others, but note included snack at 9:30.)

³ 9:30 – 10:00 morning snacks (drinks included)

⁴ Luncheon (chicken) is provided for all registered attendees and speakers. **Please alert** a conference coordinator (Yolanda Jones King, Tinka Gammel, or Alice Yuen) if you'd prefer a vegetarian meal.

⁵ 3:00 – 3:30 afternoon snacks (drinks included)

⁶ Dinner (pork loin) is provided for all registered attendees and speakers. **Please alert** a conference coordinator (Yolanda Jones King, Tinka Gammel, or Alice Yuen) if you'd prefer a vegetarian meal.



New Mexico Network for Women in Science and Engineering

OFFICERS: Barbara Torres, President; Tinka Gammel, Vice President, President Elect; Yolanda King, Treasurer; Jeanne Banks, Secretary; Barbara Torres, Past President

Annual Meeting Agenda
Embassy Suites Hotel, Albuquerque, New Mexico
Saturday, October 29, 2005
9:00 AM

CALL TO ORDER	Barbara Torres
SECRETARY'S REPORT	Jeanne Banks
TREASURER'S REPORT	Yolanda King
STANDING COMMITTEE REPORTS	
Annual Meeting	Yolanda King
Archives	Mary Campbell
Elections	Georgia Pedicini
Fund Raising	Debby Potter
Membership	Dana Roberson
Newsletter	Lynda Tower
Web Page	Tinka Gammel
Publicity	Kim Linder
Policies and Procedures	No report
Science Fair	Mercedes Agogino
EXPANDING YOUR HORIZONS	
State EYH	Dana Roberson
Northern Chapter (Los Alamos)	Georgia Pedicini
Southern Chapter (Silver City)	Adrienne Dare
Central Chapter (Albuquerque)	Yolanda King
CHAPTER REPORTS	
Northern Chapter (Los Alamos)	Tinka Gammel
Eastern Chapter	Mercedes Agogino
Central Chapter (Albuquerque)	Jeanne Banks
OLD BUSINESS	
Strategic Planning	
NEW BUSINESS	



New Mexico Network for Women in Science and Engineering

OFFICERS: Tinka Gammel, President; Yolanda King, Treasurer; TBE,
Secretary; Barbara Torres, Past President

NMNWSE Board Meeting

Sunday, October 30, 2005, 9:00 AM (breakfast at 8:30), Embassy Suites, Albuquerque

TOPIC

PRESENTER

Call to Order (quorum = majority of Board, including proxies)	Tinka Gammel
Secretary's Report	Jeanne Banks
Treasurer's Report	Yolanda King

Reports from Standing Committee Chairs:

Annual Meeting Chair	Yolanda King
Elections	Georgia Pedicini
Archives	Mary Campbell
Web Page	Tinka Gammel
Membership	Dana Roberson
Fund Raising	Debby Potter
Newsletter	Lynda Tower
Policies and Procedures	Vacant
Publicity	Kim Linder
Science Fair	Mercedes Agogino

Expanding Your Horizons:

State	Dana Roberson
Albuquerque (non-Board position)	LeAnne Brasure
Los Alamos (non-Board position)	Georgia Pedicini
Silver City (non-Board position)	Jo Ann Fischer/ Adrienne Dare

Chapter Reports:

Central Chapter	Yolanda Jones King
Eastern Chapter	Mercedes Agogino
Northern Chapter	Janie Enter

Old Business/Action Items:

Date Opened	Open Action Items from Aug Board Mtg (does not include Action Items for Ann Mtg)	Responsible	Status
6/2005	Provide appropriate names at UNM to Barbara Torres so thank you letters may be sent.	Debby Potter	Open
6/2005	Present a proposal to "bundle" all science program awards, assign a committee and report.	Tinka Gammel Georgia Pedicini	Open
6/2005	Generate Statewide EYH report to provide to our donors.	Dana Roberson Debby Potter	Closed?
?	Election Chair	Georgia Pedicini	Open

New Business, Announcements:

NMNWSE Technical Session 2005
Saturday, October 29, 1:15 PM, Embassy Suites, Albuquerque
ABSTRACTS

"NSF-ADVANCE: Institutional transformation for faculty diversity"

Tracy Sterling, Pam Hunt, Lisa M. Frehill, and Cecily Jeser-Cannavale

Since 2001, the National Science Foundation has funded 19 Universities to address the gender equity issues in science, technology, engineering, and mathematics (STEM) fields through ADVANCE: Institutional Transformation (ADVANCE: IT) awards. These awards seek to change institutions to accommodate the 21st century labor force. At U.S. research institutions, women account for ca. 31% of all tenured and tenure-track faculty members, but only 18% of STEM faculty, trailing the percent of women receiving doctoral degrees in agriculture, biology, physical sciences, and engineering. The primary reasons for under-representation of women in STEM have been identified as pipeline, climate, unconscious bias, and balancing family and work issues (Science 309:1190, 2005). Therefore, the ADVANCE: IT grant at New Mexico State University (NMSU) implemented the following best practices to increase the number of women recruited and retained in STEM faculty positions. Recruitment initiatives focused on start-up package enhancements, dual-career initiatives, and department head training. Retention initiatives included research and travel awards, mentoring and leadership programs, workshops for faculty development and promotion and tenure; many of these include most departments and equal gender representation. The number of women recruited into the STEM fields at NMSU has doubled over the last four years and the women in STEM total nearly 20%. These practices and research findings have been disseminated to decision-makers on campus, at national and international conferences, and published in journals.

"Playing the Part: Using Handhelds in Participatory Simulations"

Irene Lee, Santa Fe Institute/MIT ITEST Program and
Betsy Frederick, Supercomputing Challenge.

PDA Participatory Simulations Use Palm OS or Pocket PC handheld computers to embed participants within simulations.

Interactions between players in the game are mediated by peer-to-peer beaming. These simulations have been used with students (from fourth grade through graduate school), teachers (in science, math, technology, and social sciences), and many other professional development contexts. In this problem-solving activity, using Palm Zires provided to participants, the group will determine the rules governing a virus outbreak by choosing strategies to figure out the dynamics of the disease.

"Computational Science: Complexity and Agent Based Modeling"

Irene Lee, Santa Fe Institute/MIT ITEST Program and
Betsy Frederick, Supercomputing Challenge.

The Supercomputing Challenge has shifted in the last decade to include middle school students and towards a greater emphasis on Computational Science. Offline activities, PDA, simulations, and StarLogo programming are being used to to increase understanding of complex phenomena. When students create their own models, their insights into complex systems deepen.

"Sofya Kovalevskaya, the first woman to receive a Ph.D. in mathematics"

Joan S. Saberhagen

What does it take to be a respected scientist and teacher if you're a woman in a culture that doesn't support your ambitions? What methods and attitudes promote success? Where are the pitfalls? What are the challenges? Through an in-depth examination of the life of Sofya Kovalevskaya, the first woman to receive a Ph.D. in mathematics, author and biographer Joan Spicci will look at what worked and what didn't in the building of a successful career and happy life for Sofya Kovalevskaya.

"Experiential Materials Science Outreach and Training – a Description of Successful Activities and Programs Targeting Minority Populations in northern New Mexico, USA"

Diane E. Albert, Sandra Rodriguez, Barbara Tenorio-Grimes

This paper will include an introduction citing the need for experience-based materials science; a description of an experience-based materials science activity that has proven to be very popular with Native American, Hispanic, and female students, ages 10-16; results of presenting the activity; and a discussion of reasons the activity resonates with Native and Hispanic students.